

## **ABSTRACT**

The present invention provides inspection methods and structures for facilitating the visualization and/or detection of specific chip structures. Optical or fluorescent labeling techniques are used to “stain” a specific chip structure for easier detection of the structure. Also, a temporary/sacrificial illuminating (e.g., fluorescent) film is added to the semiconductor process to facilitate the detection of a specific chip structure. Further, a specific chip structure is doped with a fluorescent material during the semiconductor process. A method of the present invention comprises: providing a first and a second material; processing the first material to form a portion of a semiconductor structure; and detecting a condition of the second material to determine whether processing of the first material is complete.